

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120823\
 Data File : VN080419.D
 Acq On : 08 Dec 2023 20:20
 Operator : JC\MD
 Sample : 05657-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 08 22:46:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

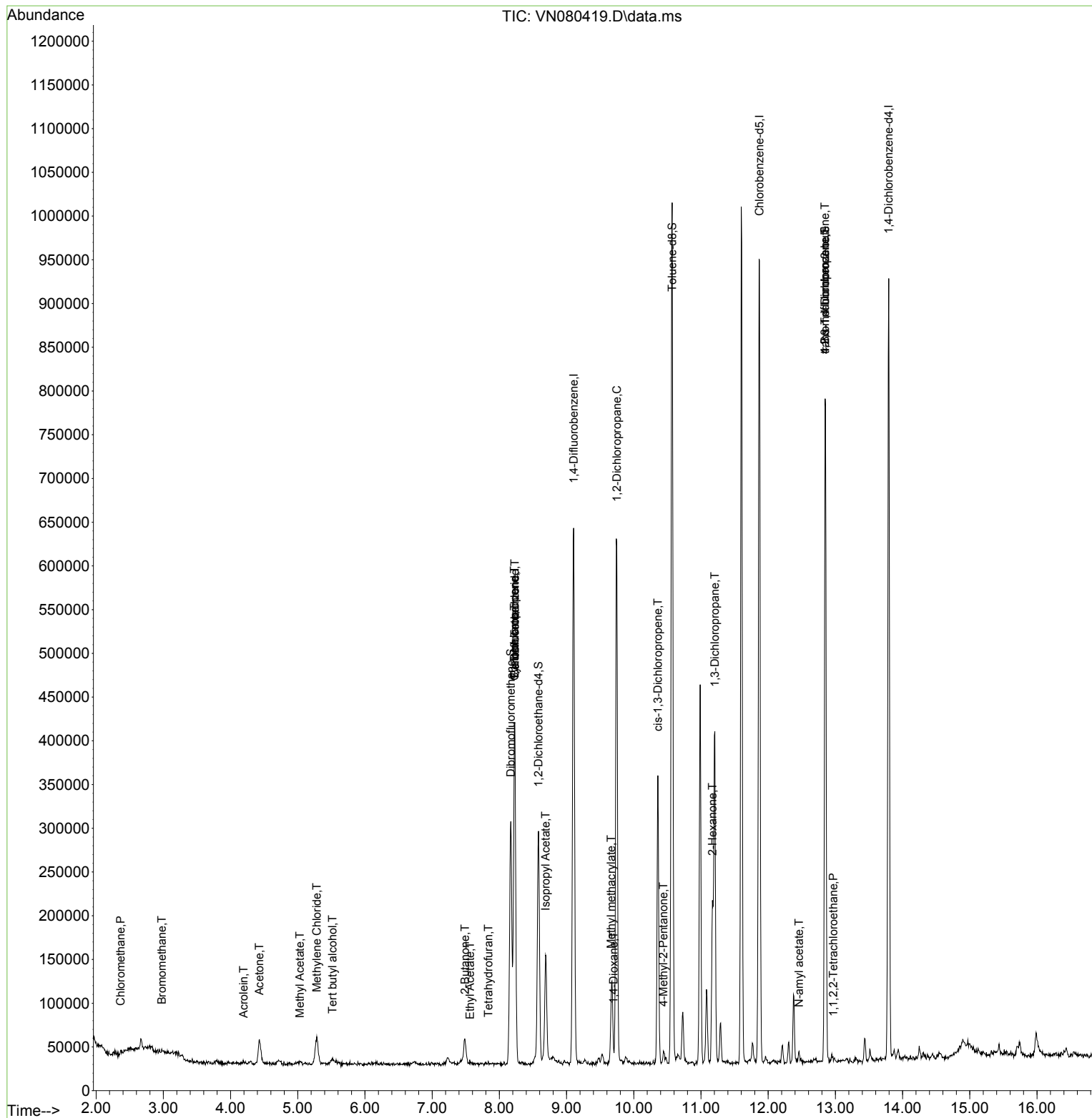
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	285621	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	540011	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	542508	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	240289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	227343	48.206	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.420%
35) Dibromofluoromethane	8.171	113	198755	49.881	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.760%
50) Toluene-d8	10.571	98	702679	48.921	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.840%
62) 4-Bromofluorobenzene	12.847	95	283593	52.272	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.540%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	4382	1.370	ug/l	91
5) Bromomethane	2.977	94	523	0.228	ug/l #	12
6) Chloroethane	3.100	64	1294	Below Cal	#	87
11) Tert butyl alcohol	5.518	59	9773	18.844	ug/l #	72
13) Acrolein	4.195	56	3610	7.865	ug/l	94
16) Acetone	4.430	43	50823	32.085	ug/l	94
18) Methyl Acetate	5.030	43	2488	0.489	ug/l #	86
20) Methylene Chloride	5.283	84	24371	7.347	ug/l	99
25) 2-Butanone	7.488	43	45262	24.050	ug/l #	87
29) Tetrahydrofuran	7.835	42	507	0.502	ug/l #	37
31) Cyclohexane	8.224	56	6252	1.219	ug/l #	35
36) 1,1-Dichloropropene	8.224	75	23631	4.096	ug/l #	49
37) Ethyl Acetate	7.565	43	3279	0.819	ug/l #	94
38) Carbon Tetrachloride	8.230	117	32380	4.423	ug/l #	18
43) Isopropyl Acetate	8.688	43	142562	18.308	ug/l #	85
45) 1,2-Dichloropropane	9.747	63	836	0.219	ug/l #	45
48) Methyl methacrylate	9.665	41	5610	1.398	ug/l #	33
49) 1,4-Dioxane	9.700	88	954	14.290	ug/l #	30
51) 4-Methyl-2-Pentanone	10.441	43	12349	3.063	ug/l #	77
54) cis-1,3-Dichloropropene	10.359	75	63346	9.512	ug/l #	62
57) 1,3-Dichloropropane	11.206	76	3987	0.583	ug/l #	42
59) 2-Hexanone	11.171	43	201342	62.153	ug/l #	19
74) N-amyl acetate	12.459	43	7375	1.267	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.970	83	1238	0.222	ug/l #	33
76) 1,2,3-Trichloropropane	12.847	75	147513	25.055	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	147513	84.652	ug/l #	15

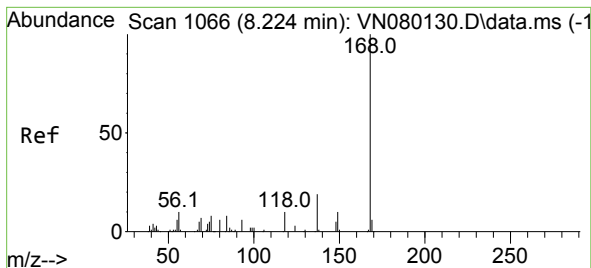
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 17 01:19:32 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Instrument :

MSVOA_N

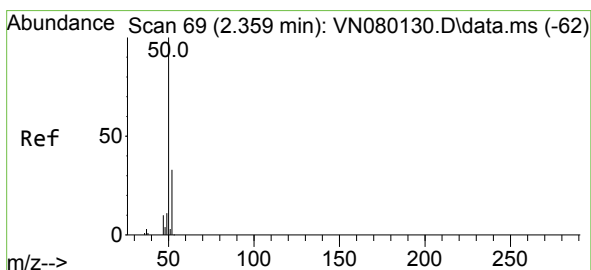
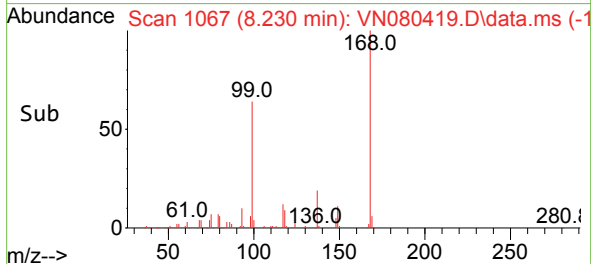
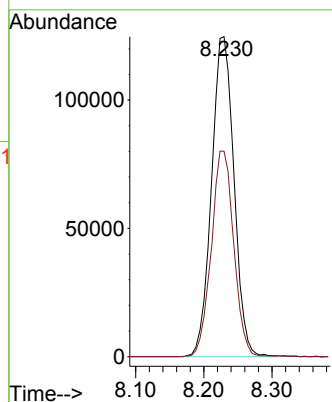
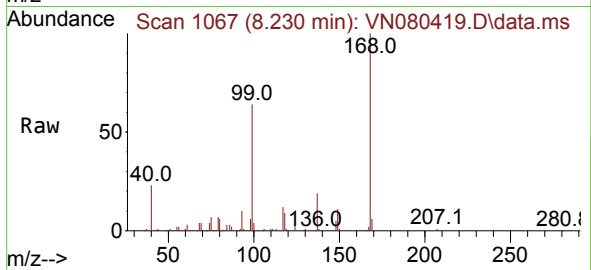
ClientSampleId :

Tgt Ion:168 Resp: 285621

Ion Ratio Lower Upper

168 100

99 64.2 53.0 79.6



#3

Chloromethane

Concen: 1.370 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080419.D

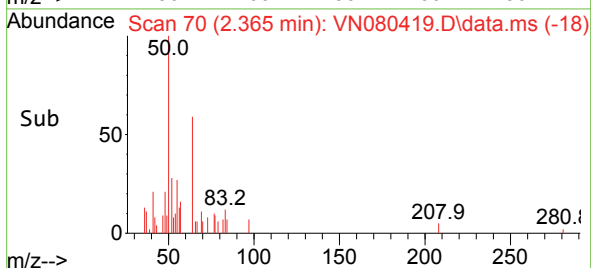
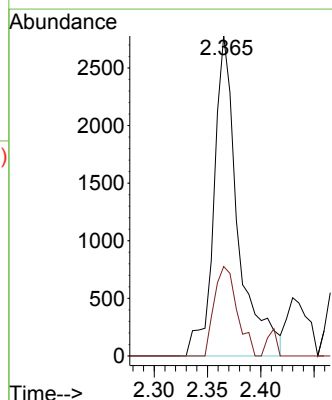
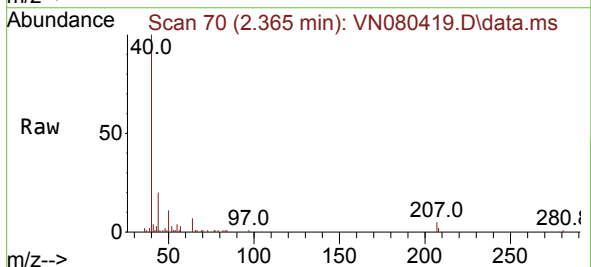
Acq: 08 Dec 2023 20:20

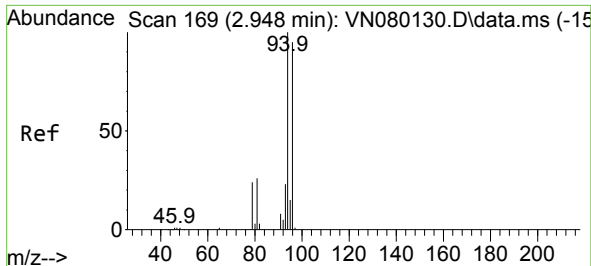
Tgt Ion: 50 Resp: 4382

Ion Ratio Lower Upper

50 100

52 28.0 26.5 39.7

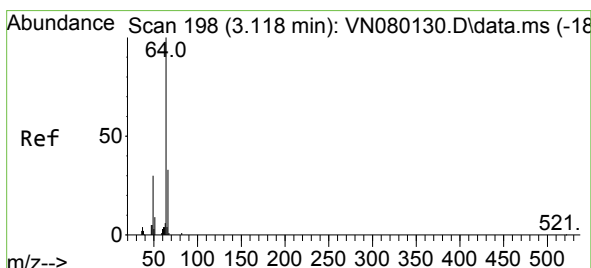
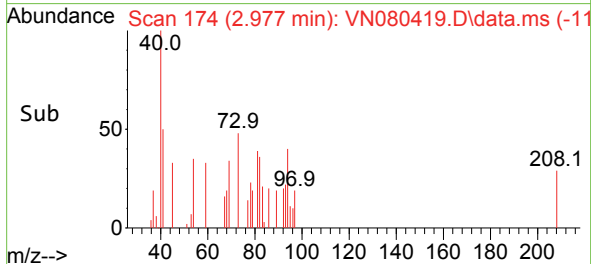
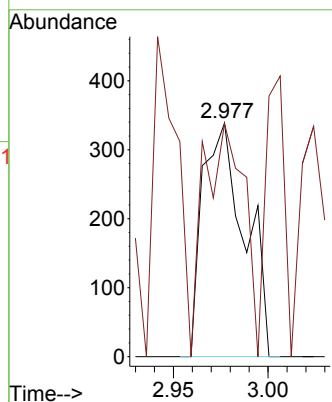
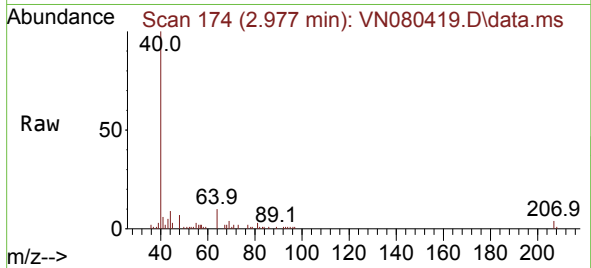




#5
Bromomethane
Concen: 0.228 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

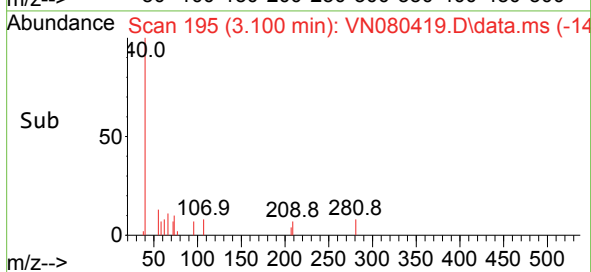
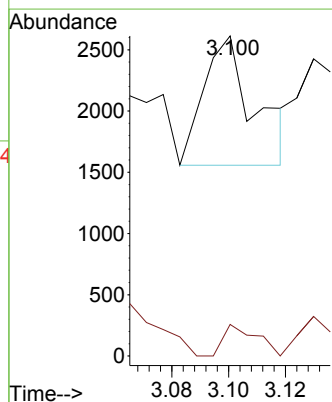
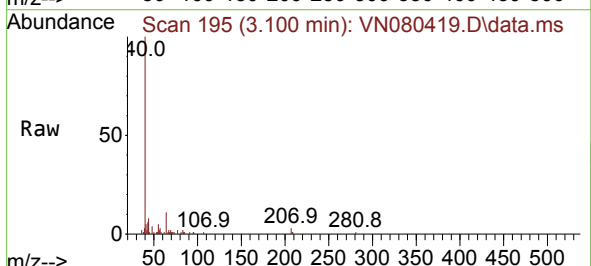
Instrument :
MSVOA_N
ClientSampleId :

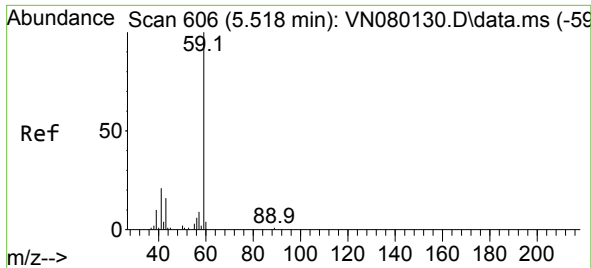
Tgt Ion: 94 Resp: 523
Ion Ratio Lower Upper
94 100
96 7.7 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 64 Resp: 1294
Ion Ratio Lower Upper
64 100
66 24.5 25.4 38.2#





#11

Tert butyl alcohol

Concen: 18.844 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.000 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Instrument :

MSVOA_N

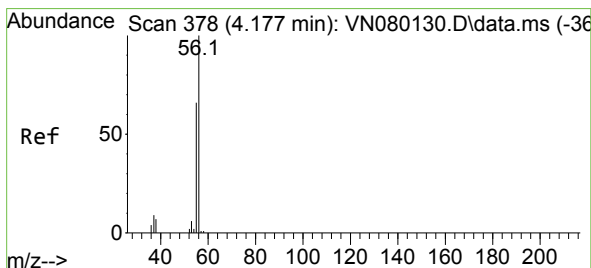
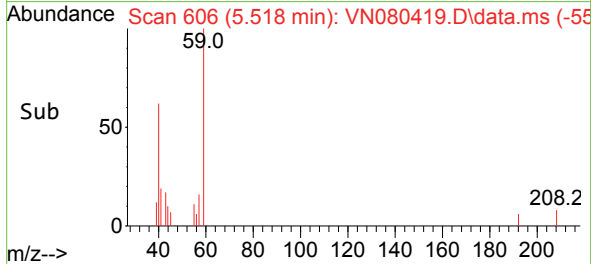
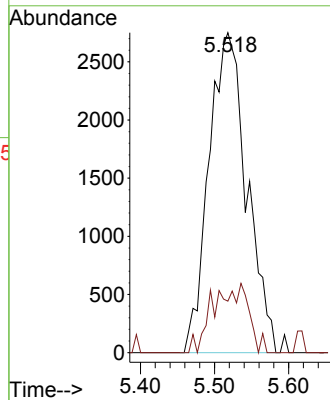
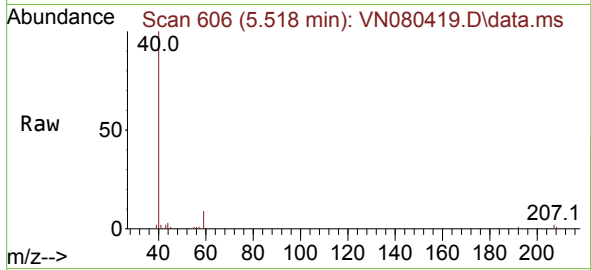
ClientSampleId :

Tgt Ion: 59 Resp: 9773

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 7.865 ug/l

RT: 4.195 min Scan# 381

Delta R.T. 0.018 min

Lab File: VN080419.D

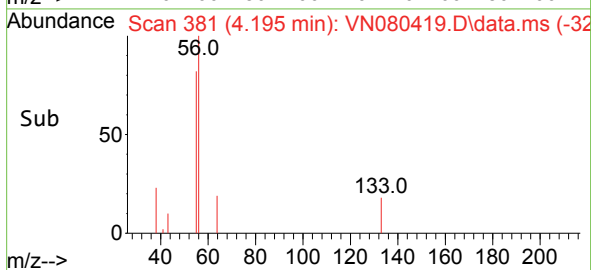
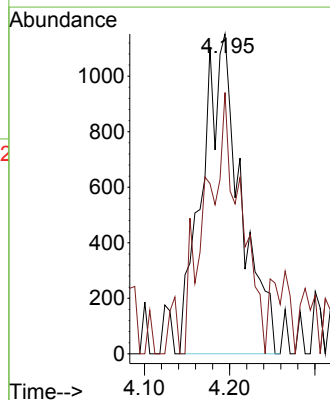
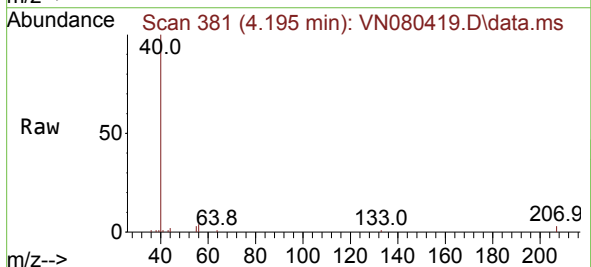
Acq: 08 Dec 2023 20:20

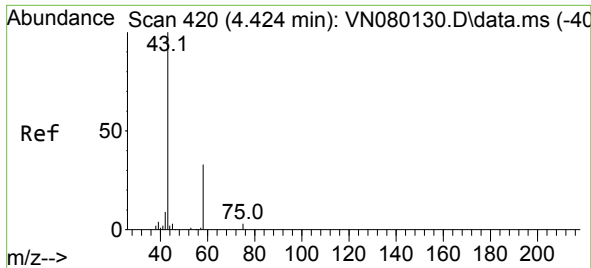
Tgt Ion: 56 Resp: 3610

Ion Ratio Lower Upper

56 100

55 73.3 54.5 81.7

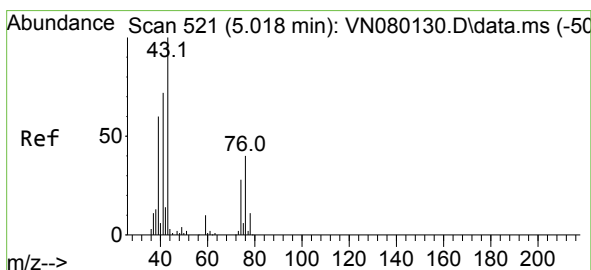
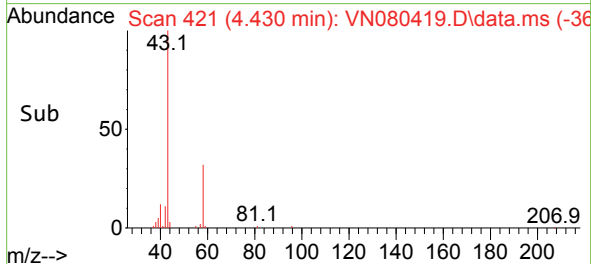
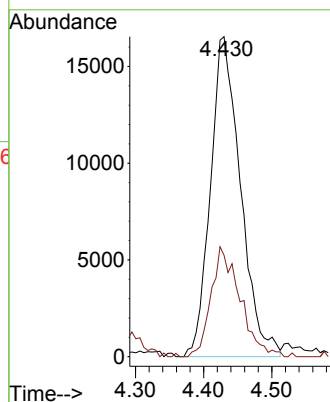
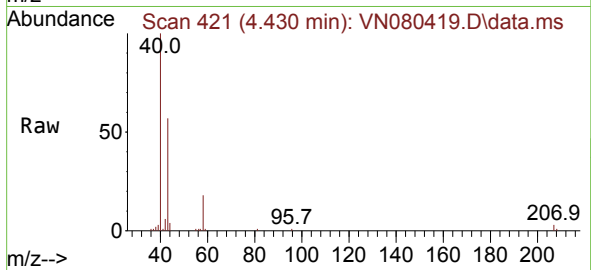




#16
Acetone
Concen: 32.085 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

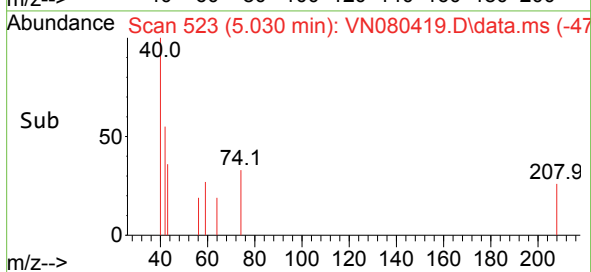
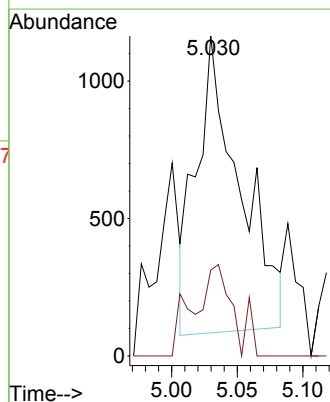
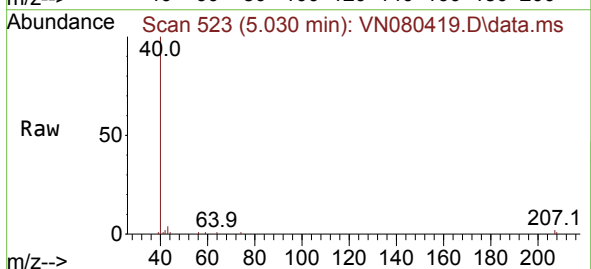
Instrument :
MSVOA_N
ClientSampleId :

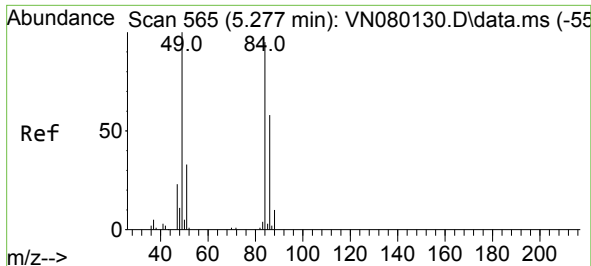
Tgt Ion: 43 Resp: 50823
Ion Ratio Lower Upper
43 100
58 31.7 28.0 42.0



#18
Methyl Acetate
Concen: 0.489 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 43 Resp: 2488
Ion Ratio Lower Upper
43 100
74 25.1 26.2 39.4#





#20

Methylene Chloride

Concen: 7.347 ug/l

RT: 5.283 min Scan# 5

Delta R.T. 0.006 min

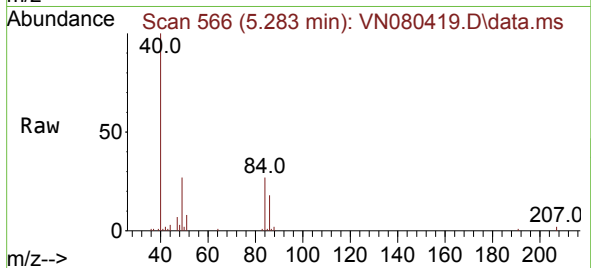
Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 24371

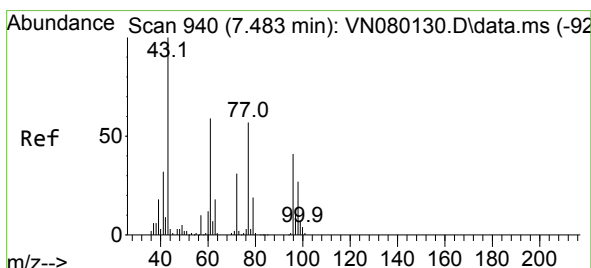
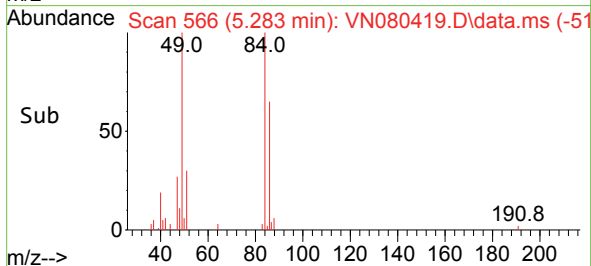
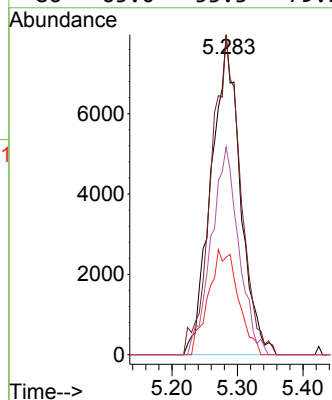
Ion Ratio Lower Upper

84 100

49 100.2 79.7 119.5

51 30.5 25.2 37.8

86 65.0 53.3 79.9



#25

2-Butanone

Concen: 24.050 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN080419.D

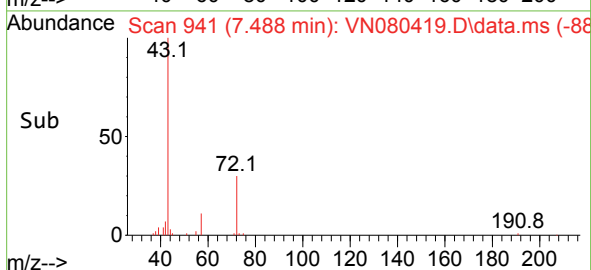
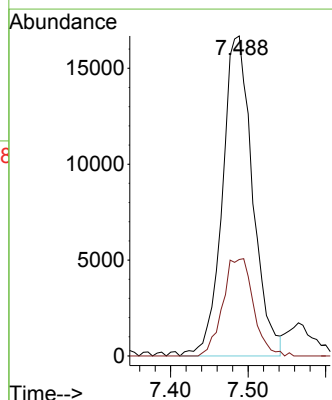
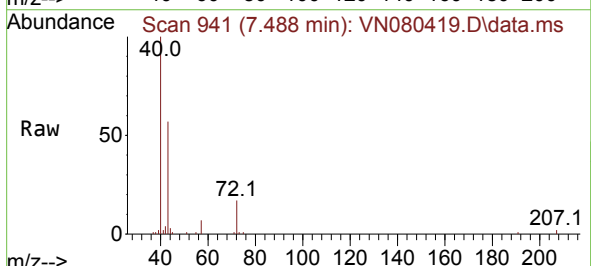
Acq: 08 Dec 2023 20:20

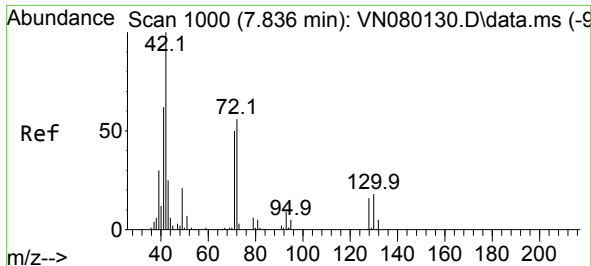
Tgt Ion: 43 Resp: 45262

Ion Ratio Lower Upper

43 100

72 30.2 30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.502 ug/l

RT: 7.835 min Scan# 1066

Delta R.T. -0.000 min

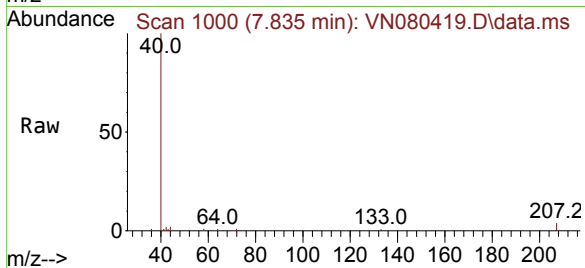
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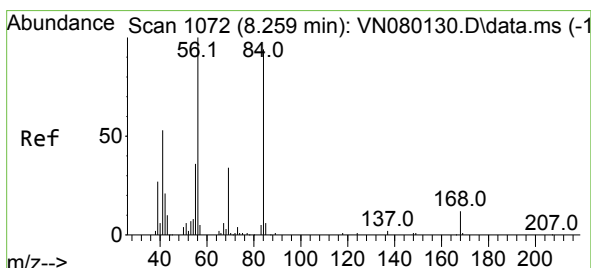
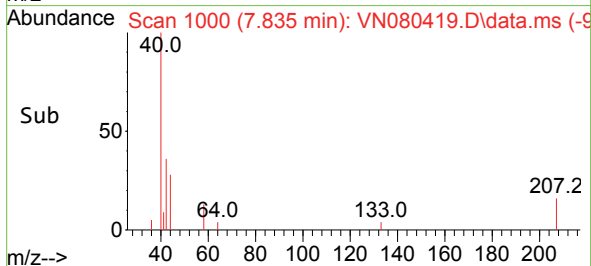
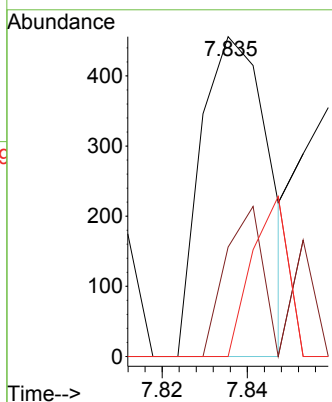
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	507
Ion Ratio	Lower	Upper	
42	100		
72	25.8	49.8	74.6#
71	0.0	47.4	71.2#



#31

Cyclohexane

Concen: 1.219 ug/l

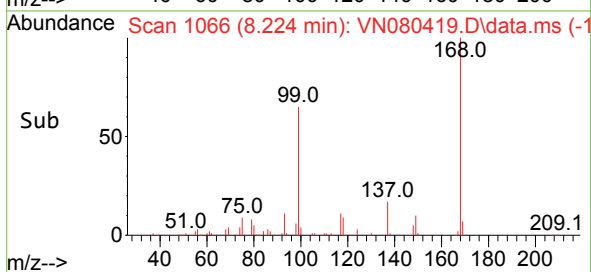
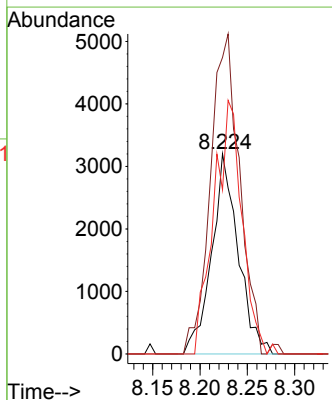
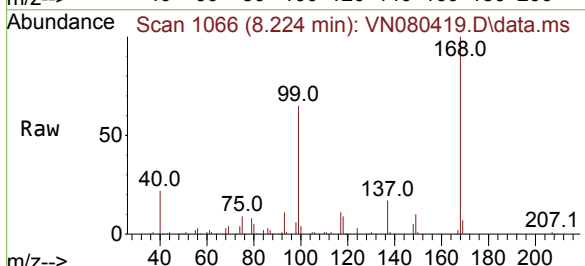
RT: 8.224 min Scan# 1066

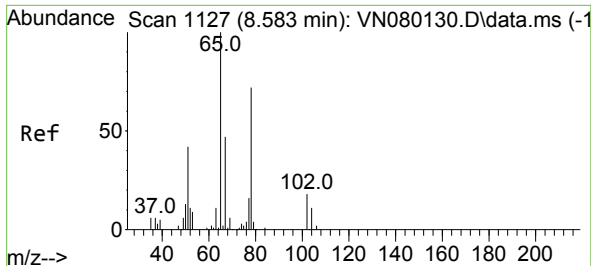
Delta R.T. -0.035 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Tgt Ion:	56	Resp:	6252
Ion Ratio	Lower	Upper	
56	100		
69	148.1	26.8	40.2#
84	82.0	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 48.206 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Instrument :

MSVOA_N

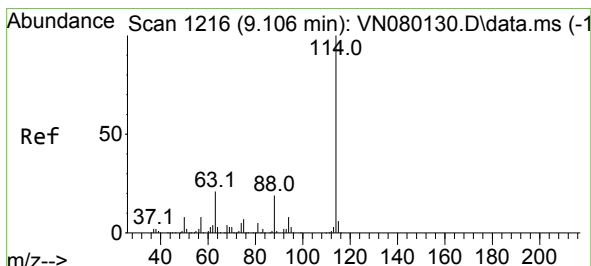
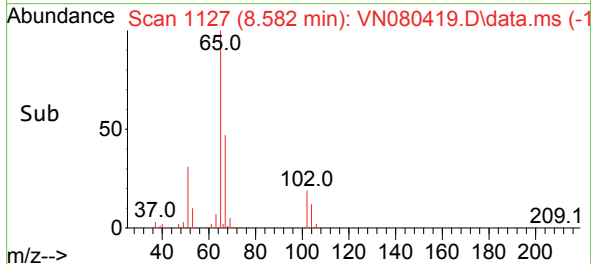
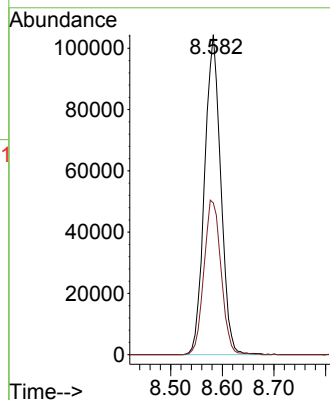
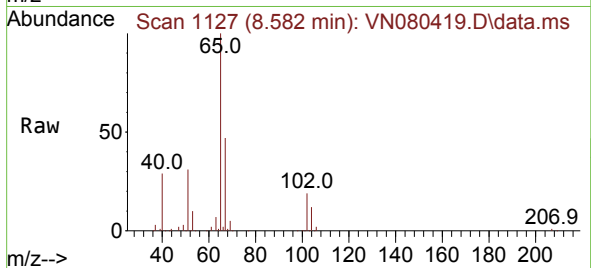
ClientSampleId :

Tgt Ion: 65 Resp: 227343

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

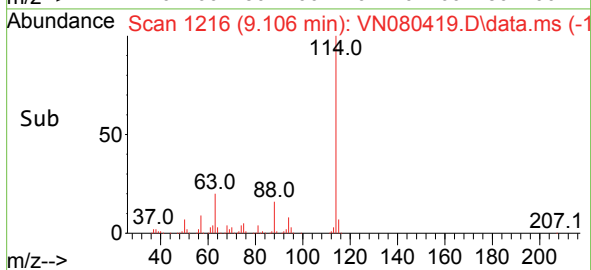
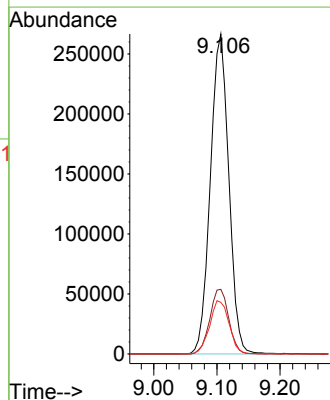
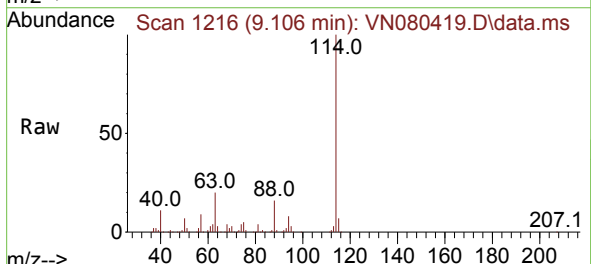
Tgt Ion: 114 Resp: 540011

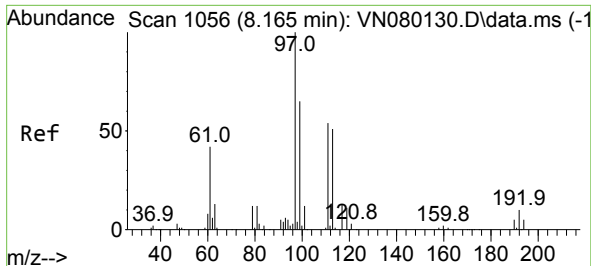
Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

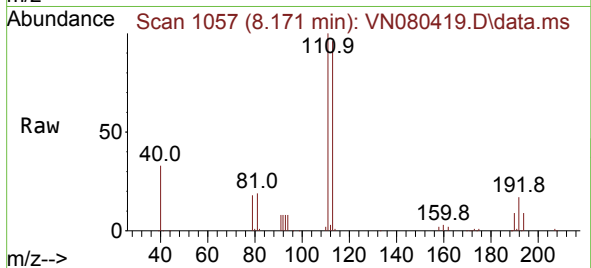
88 16.1 0.0 30.6



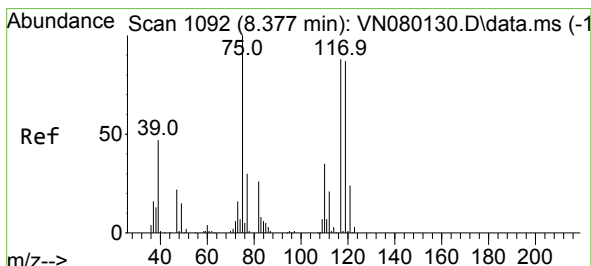
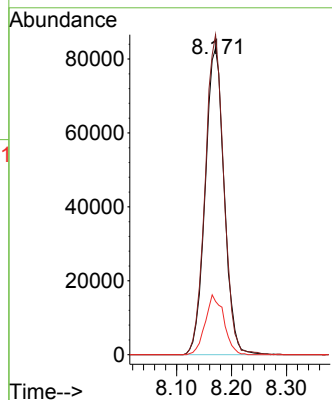
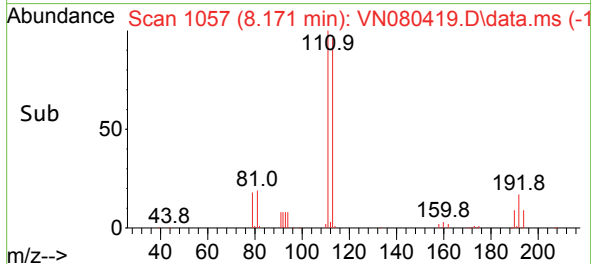


#35
Dibromofluoromethane
Concen: 49.881 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Instrument :
MSVOA_N
ClientSampleId :

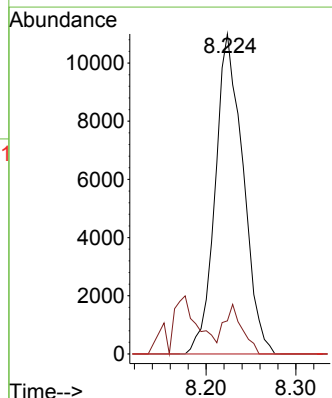
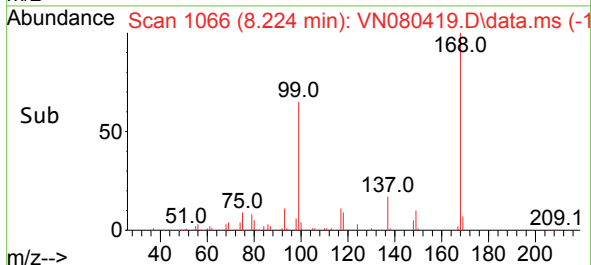
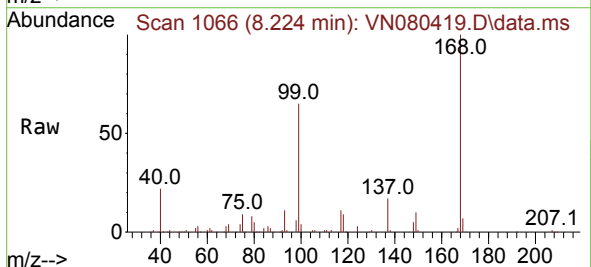


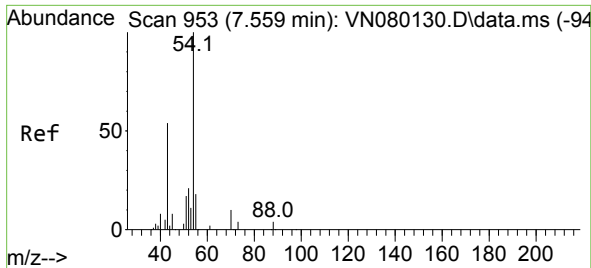
Tgt Ion:113 Resp: 198755
Ion Ratio Lower Upper
113 100
111 102.8 82.6 123.8
192 19.2 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 4.096 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 75 Resp: 23631
Ion Ratio Lower Upper
75 100
110 10.0 19.1 57.3#
77 0.0 25.0 37.4#

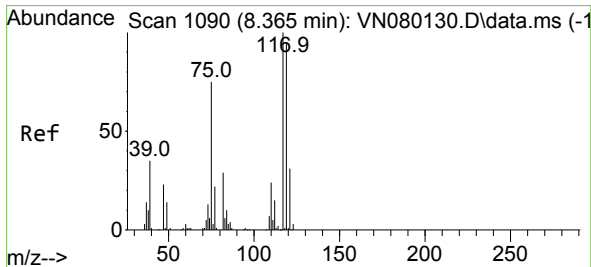
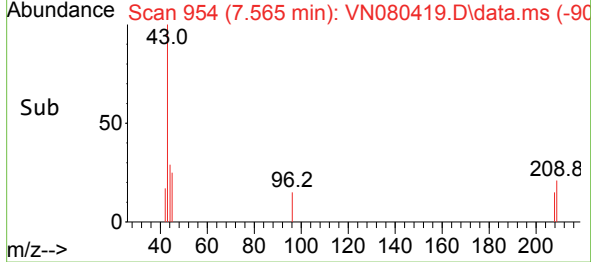
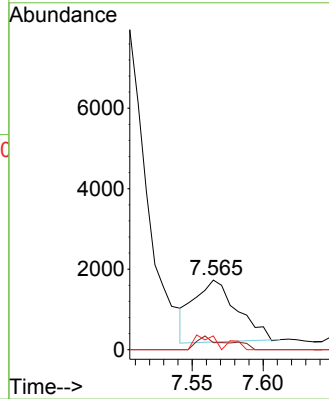
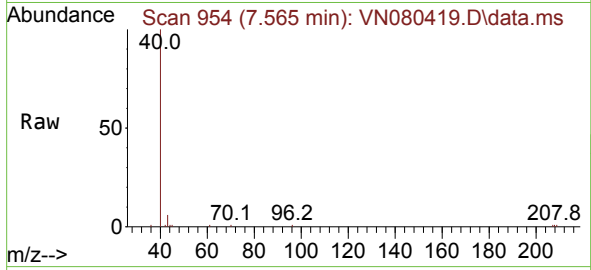




#37
Ethyl Acetate
Concen: 0.819 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

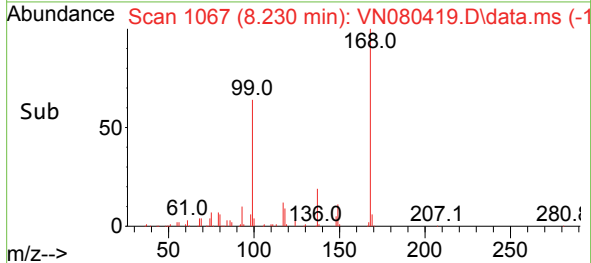
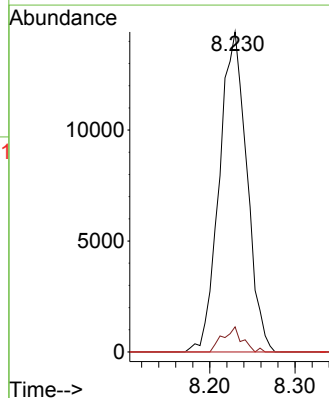
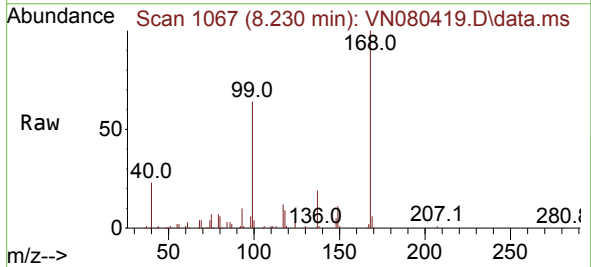
Instrument :
MSVOA_N
ClientSampleId :

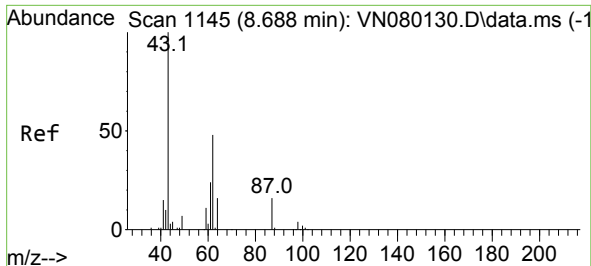
Tgt Ion: 43 Resp: 3279
Ion Ratio Lower Upper
43 100
61 15.1 13.2 19.8
70 10.2 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.423 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

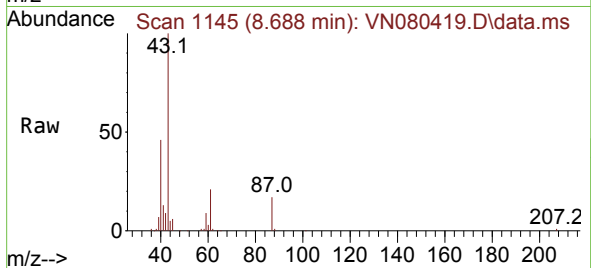
Tgt Ion: 117 Resp: 32380
Ion Ratio Lower Upper
117 100
119 7.9 77.3 115.9#
121 0.0 23.3 34.9#



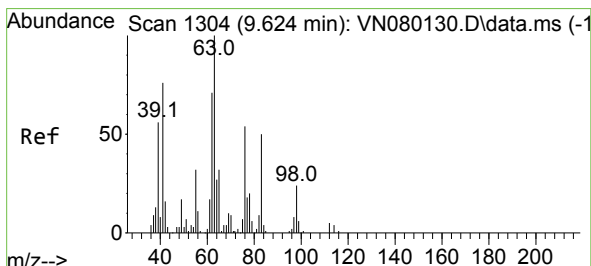
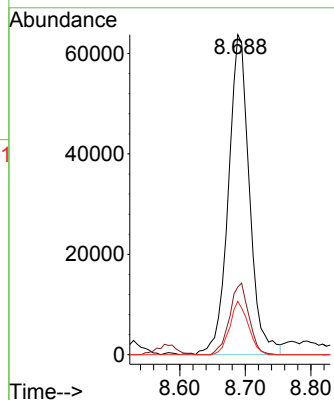
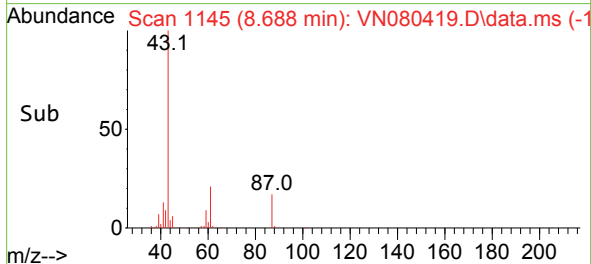


#43
Isopropyl Acetate
Concen: 18.308 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Instrument :
MSVOA_N
ClientSampleId :

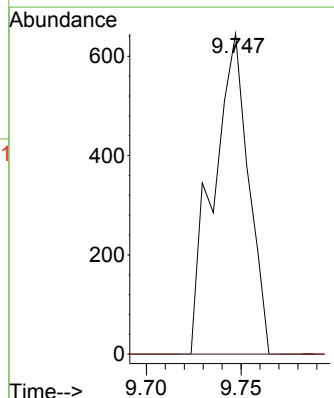
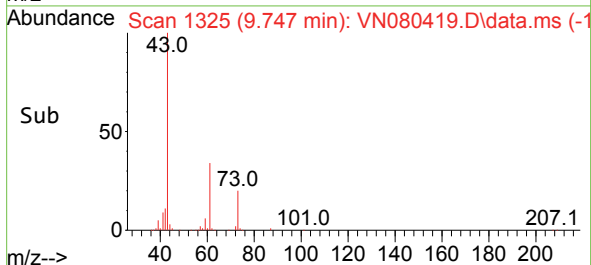
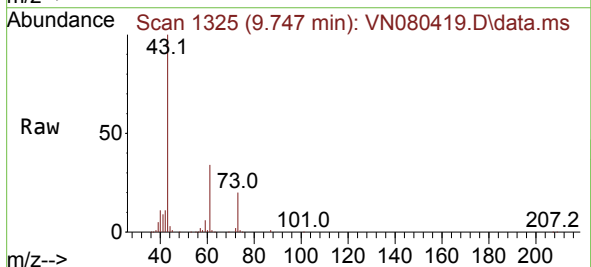


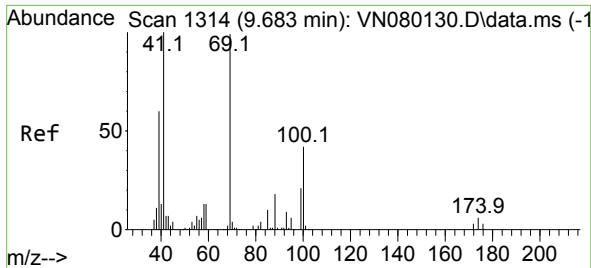
Tgt Ion: 43 Resp: 142562
Ion Ratio Lower Upper
43 100
61 20.5 24.7 37.1#
87 14.6 14.6 21.8



#45
1,2-Dichloropropane
Concen: 0.219 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 63 Resp: 836
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

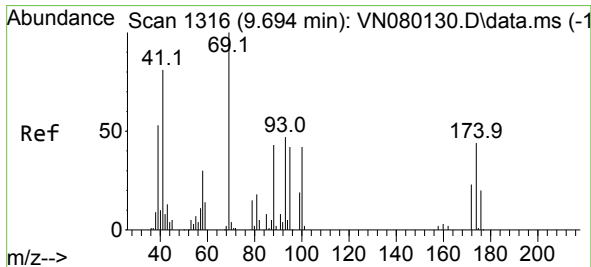
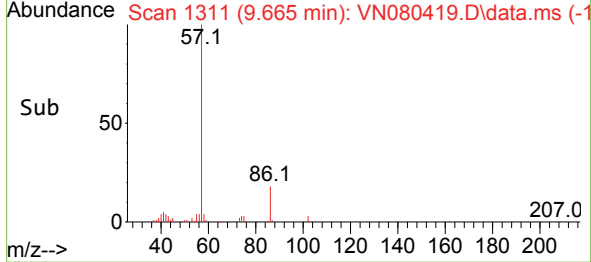
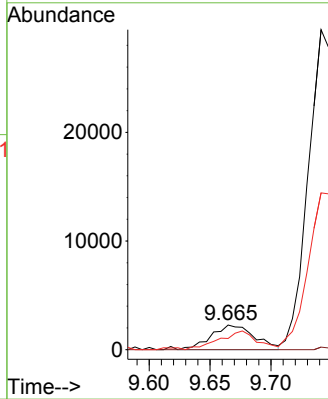
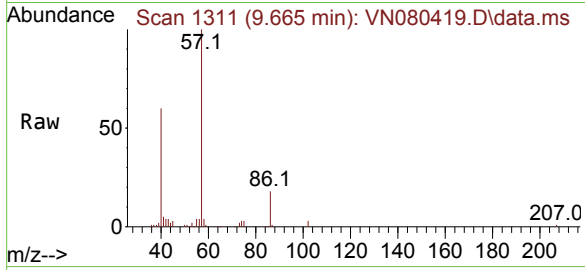




#48
Methyl methacrylate
Concen: 1.398 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

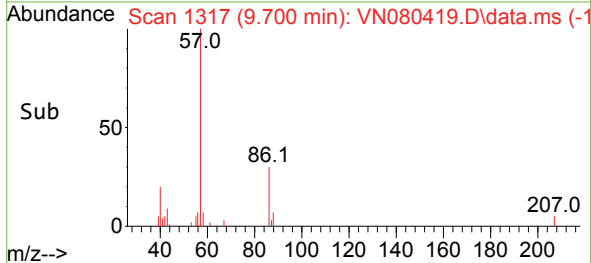
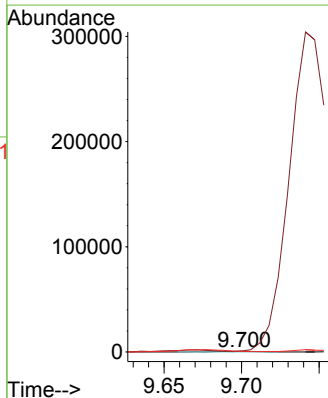
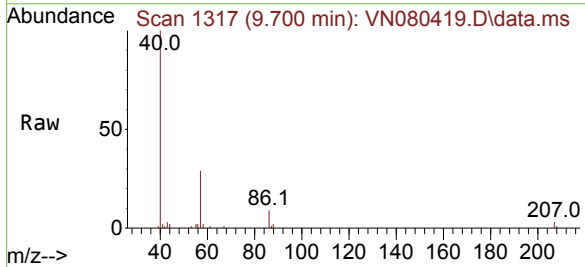
Instrument :
MSVOA_N
ClientSampleId :

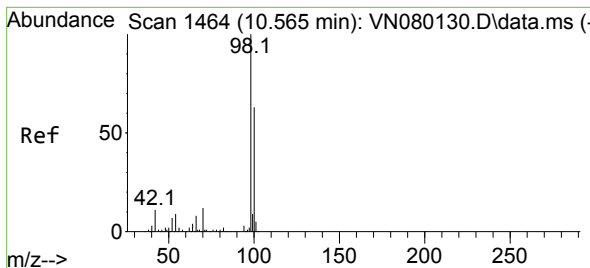
Tgt Ion: 41 Resp: 5610
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 66.3 54.6 81.8



#49
1,4-Dioxane
Concen: 14.290 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 88 Resp: 954
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#





#50

Toluene-d8

Concen: 48.921 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Instrument :

MSVOA_N

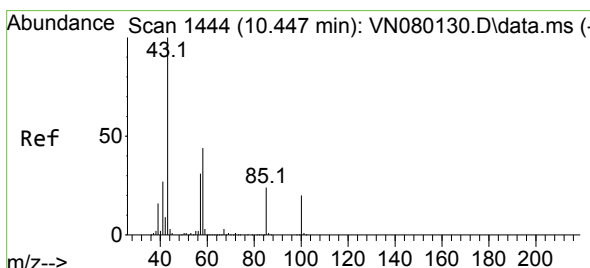
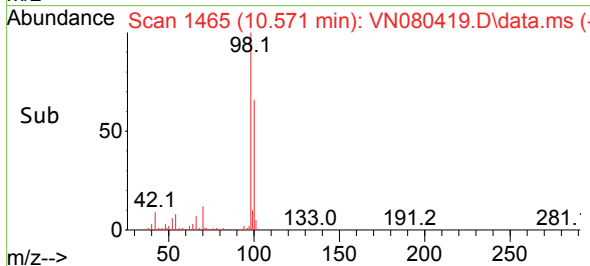
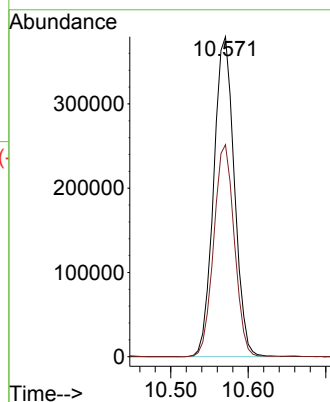
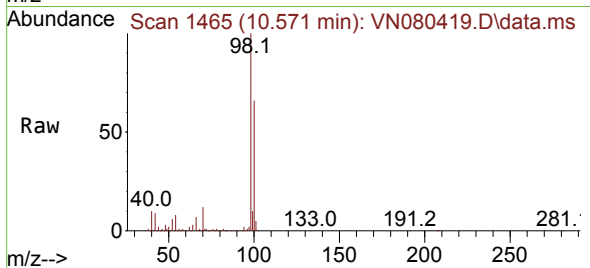
ClientSampleId :

Tgt Ion: 98 Resp: 702679

Ion Ratio Lower Upper

98 100

100 66.0 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 3.063 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN080419.D

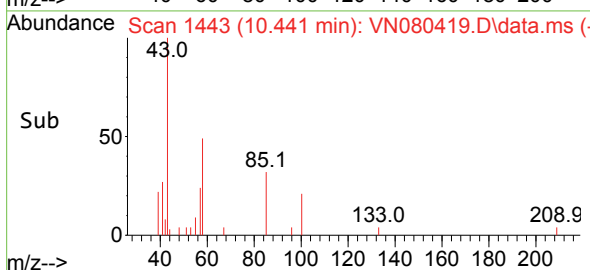
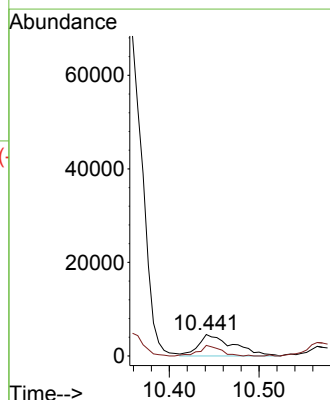
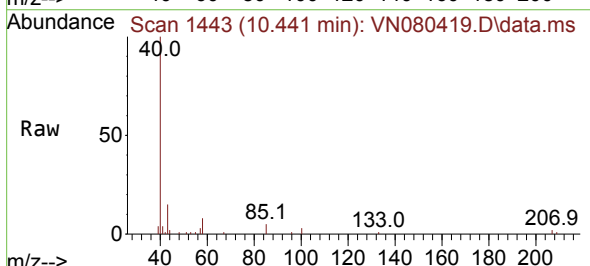
Acq: 08 Dec 2023 20:20

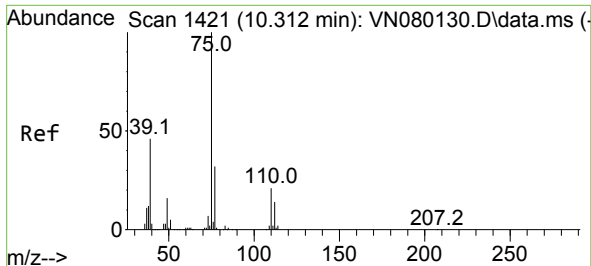
Tgt Ion: 43 Resp: 12349

Ion Ratio Lower Upper

43 100

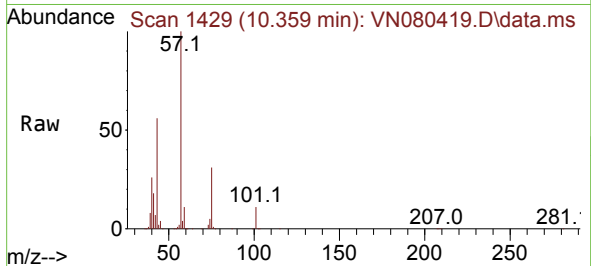
58 30.7 36.6 54.8#



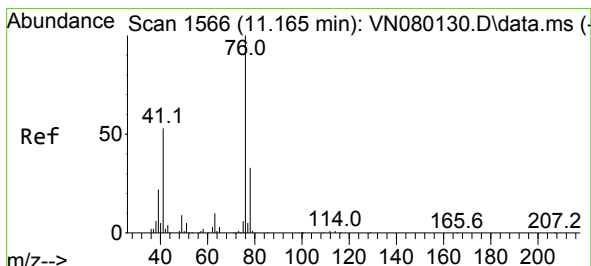
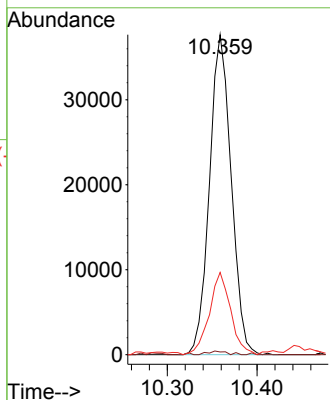
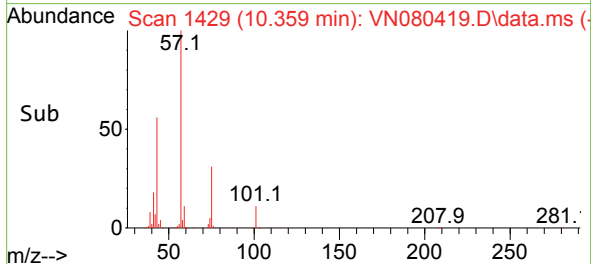


#54
 cis-1,3-Dichloropropene
 Concen: 9.512 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN080419.D
 Acq: 08 Dec 2023 20:20

Instrument :
 MSVOA_N
 ClientSampleId :

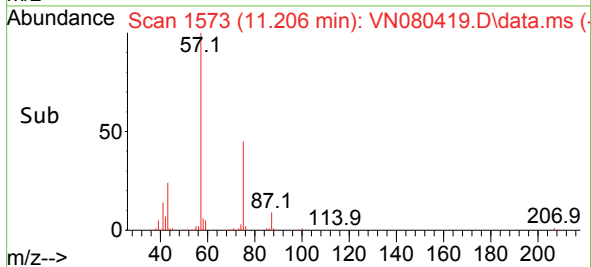
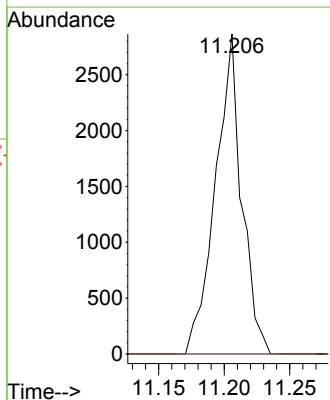
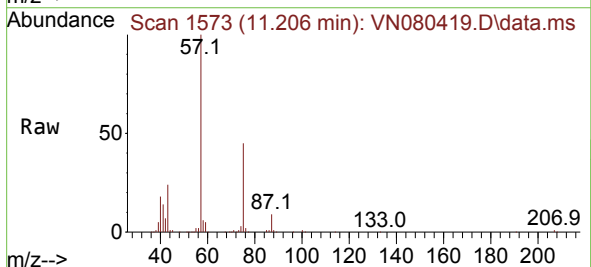


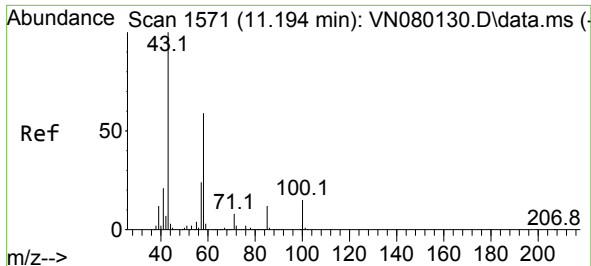
Tgt Ion: 75 Resp: 63346
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.1 39.1#
 39 25.1 31.6 47.4#



#57
 1,3-Dichloropropane
 Concen: 0.583 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.041 min
 Lab File: VN080419.D
 Acq: 08 Dec 2023 20:20

Tgt Ion: 76 Resp: 3987
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

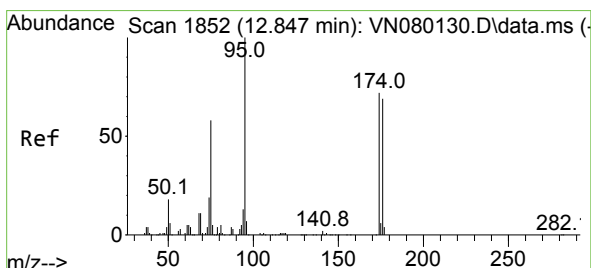
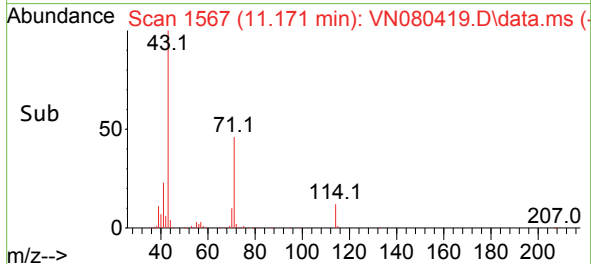
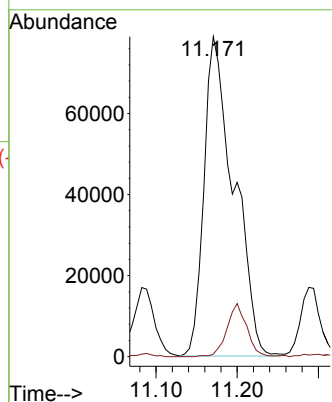
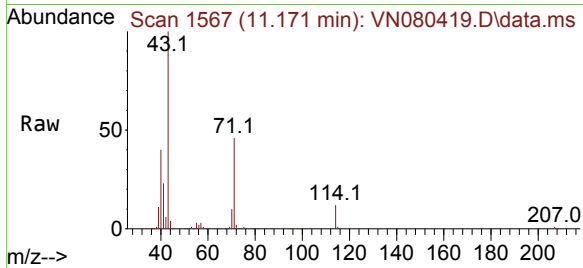




#59
2-Hexanone
Concen: 62.153 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.024 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

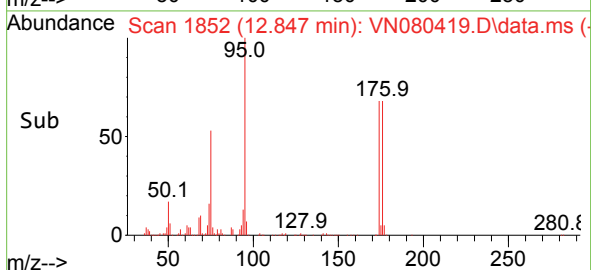
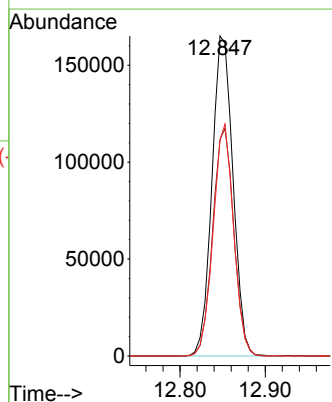
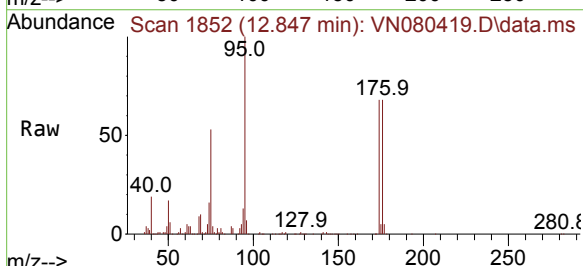
Instrument :
MSVOA_N
ClientSampleId :

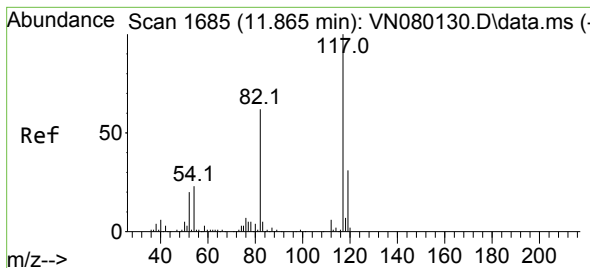
Tgt Ion: 43 Resp: 201342
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 95 Resp: 283593
Ion Ratio Lower Upper
95 100
174 71.4 0.0 143.8
176 70.1 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

Instrument :

MSVOA_N

ClientSampleId :

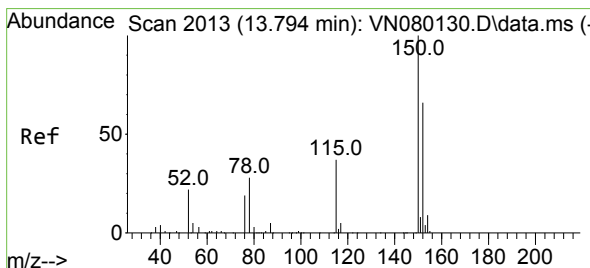
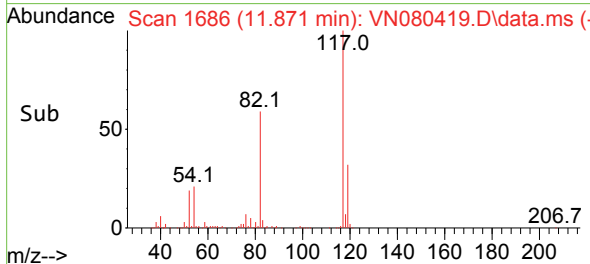
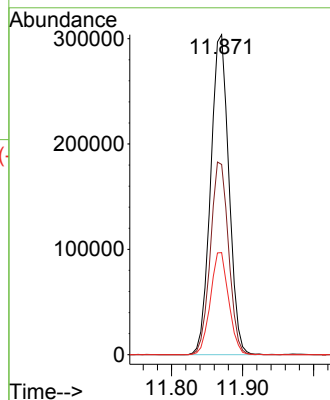
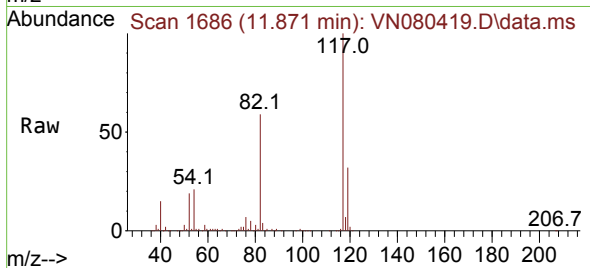
Tgt Ion:117 Resp: 542508

Ion Ratio Lower Upper

117 100

82 59.5 44.0 66.0

119 31.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN080419.D

Acq: 08 Dec 2023 20:20

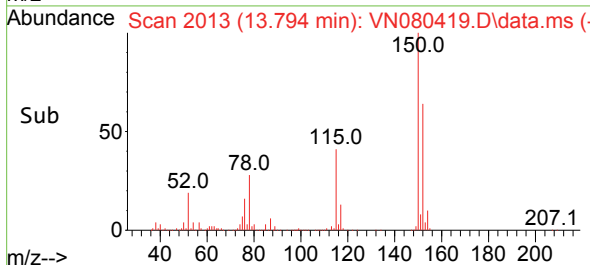
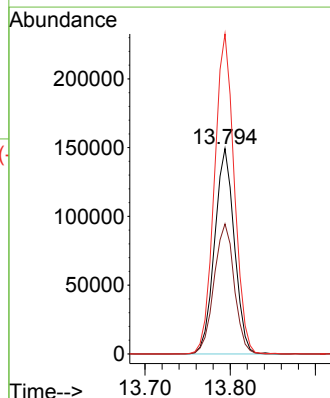
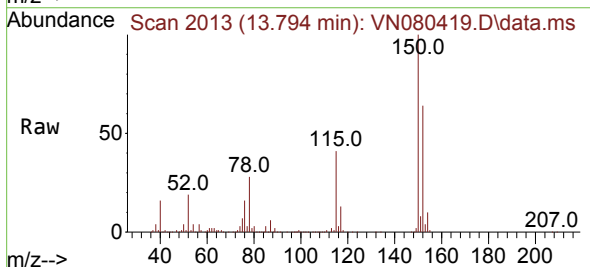
Tgt Ion:152 Resp: 240289

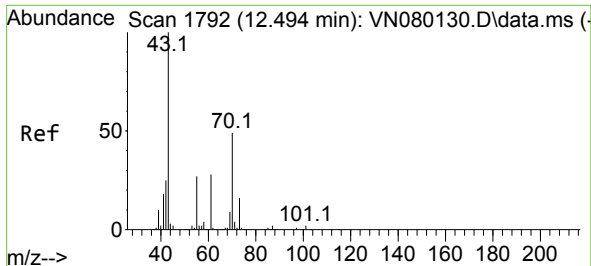
Ion Ratio Lower Upper

152 100

115 65.0 32.3 96.8

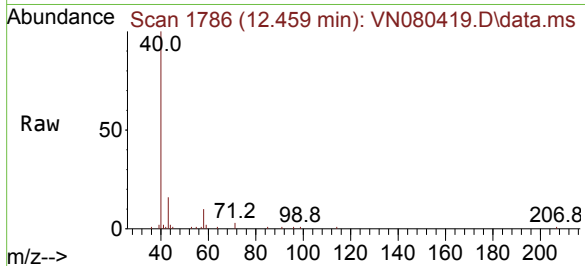
150 156.5 0.0 355.8



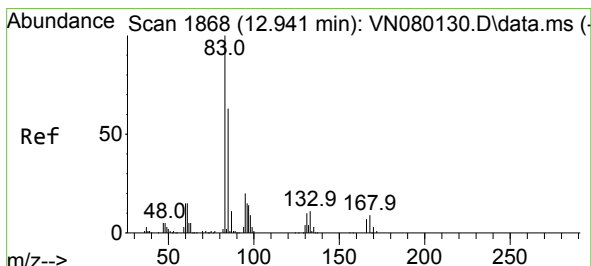
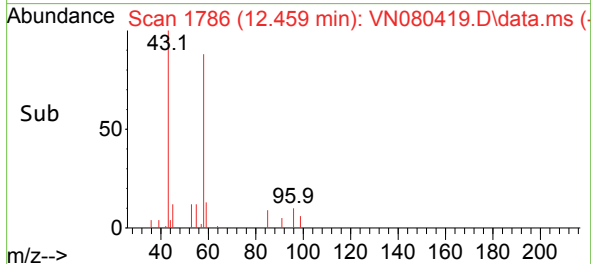
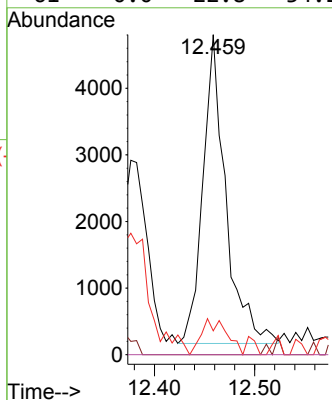


#74
N-ethyl acetate
Concen: 1.267 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.035 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Instrument :
MSVOA_N
ClientSampleId :

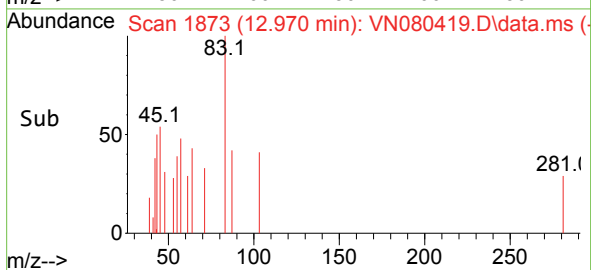
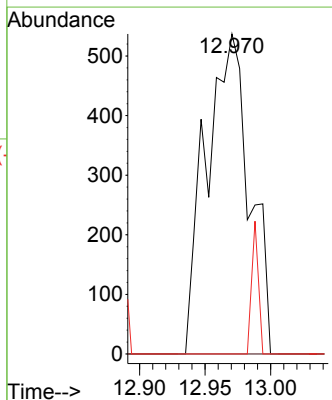
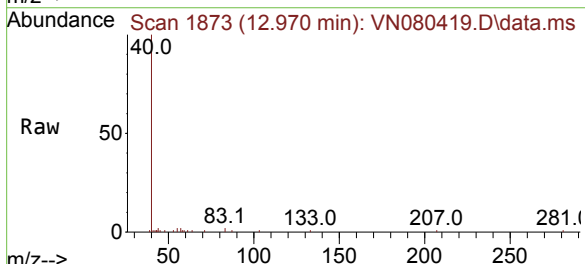


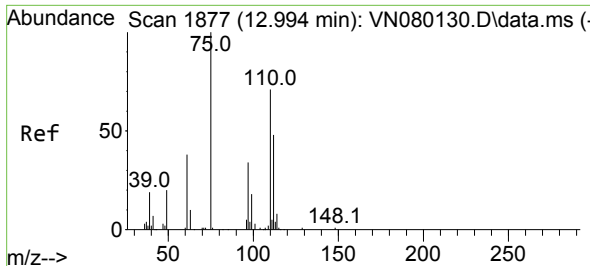
Tgt Ion: 43	Resp: 7375
Ion Ratio	Lower Upper
43 100	
70 0.0	43.4 65.2#
55 12.7	21.4 32.0#
61 0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.222 ug/l
RT: 12.970 min Scan# 1873
Delta R.T. 0.029 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 83	Resp: 1238
Ion Ratio	Lower Upper
83 100	
131 0.0	5.0 15.0#
85 6.4	31.9 95.7#

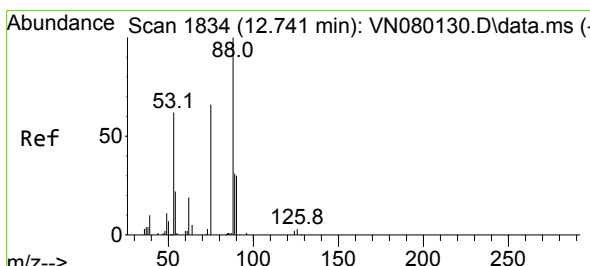
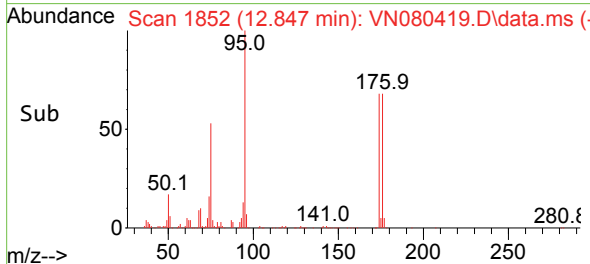
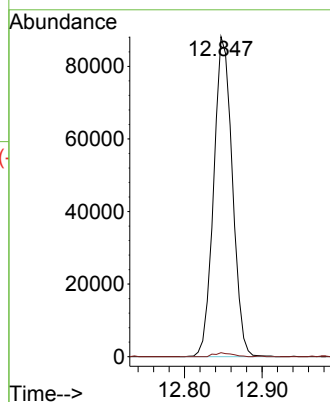
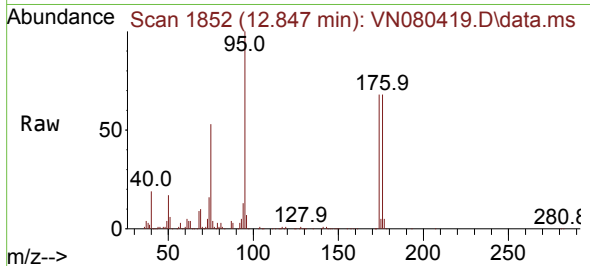




#76
1,2,3-Trichloropropane
Concen: 25.055 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 147513
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 84.652 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN080419.D
Acq: 08 Dec 2023 20:20

Tgt Ion: 75 Resp: 147513
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#

